INTERNATIONAL SEARCH REPORT

International Application No
PCT/JP2004/016499

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G04B1/14 G04B17/06 F16F1/10 C22C14/00 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) GO4B F16F C22C Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Category ° 1-7, 16-19 FR 1 151 350 A (USINE GENEVOISE DE Х DEGROSSISSAGE D'OR) 29 January 1958 (1958-01-29) page 3, column 1, line 25 - column 2, line 10 Υ 41 8,9, 11-15, 21-23 EP 1 039 352 A (MONTRES ROLEX SA; MANUFACTURE DES MONTRES ROLEX S.A; ROLEX 10 γ SA) 27 September 2000 (2000-09-27) 1-9, the whole document Α 11-23 -/--Further documents are listed in the continuation of box C. X Patent family members are listed in annex. ° Special categories of cited documents: later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filino date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 2 1, 09, 2005 17 June 2005 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Burns, M

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	ation) DOCUMENTS CONSIDERED TO BE RELEVANT		To the second second		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
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Α	PATENT ABSTRACTS OF JAPAN vol. 1997, no. 05, 30 May 1997 (1997-05-30) -& JP 09 013136 A (SEIKO INSTR INC), 14 January 1997 (1997-01-14) abstract		1-23		
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International application No. PCT/JP2004/016499

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-23
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-23

A timepiece comprising: a time display to display time information; and a driving power source driving said time display and having a first and second spring including a titanium alloy containing one or more vanadium group (Group Va) elements with an average Young's modulus of 100GPa or less and a tensile strength of 1000MPa or greater.

2. claims: 24-27

A timepiece comprising:
A time display to display time information; and a power source driving said time display and having a balance staff, a balance wheel being fixed to said balance stem, a roller with jewel and stud ball, a hairspring having an inner end being fixed to said stud ball, and a stud support being fixed to an outer end of said hairspring, said hairspring including a titanium alloy containing one or more vaadium group (Group Va) elements, with an average Young's modulus of 100 GPa or less and a tensile strength of 1000 MPa or greater.

3. claims: 28-31

A timepiece comprisin: a time display to display time information; and a power source driving said time display and having a quartz oscillator, a ground plate, and a spring fixing said quartz oscillator to said ground plate, said spring including of a titanium alloy containing one ore more vanadium group (Group Va) elements, with an average Young's modulus of 100 GPa or less na d tensile strength of 1000 MPa or greater.

Information on patent family members

International Application No PCT/JP2004/016499

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